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**SOME NOTES FROM A STUDY OF THE PROVANCHER COLLECTION OF
ICHNEUMONIDÆ.**

BY G. C. DAVIS.

It was with much satisfaction and high anticipations that I at last found myself on the train, en route to Quebec, Canada, for the purpose of studying the types of Ichneumonidæ in the Provancher collection. Ever since a short while after the death of the Abbé, I had been trying to ascertain what had become of the collection and its condition, but my efforts proved futile until recently, through the kindness of the Rev. Thos. W. Fyles, I learned of its location and the means of access to it.

I found the collection, as a whole, in three rooms of the Parliament Building at Quebec. It was recently purchased by the province and is a nucleus for a museum. The Abbé's collection consisted largely of insects and shells, and the whole is now under the charge of Mr. Saint Cyr, to whom great credit is due for the present good condition of the collection. As curator he devotes his whole time to the museum work, and throughout my stay very kindly assisted me in every way possible. The relatives of the Abbé did not realize the value of the collection of insects accumulated by him, and it was only by the earnest effort of Mr. Saint Cyr, who was a co-worker with the Abbé, that the collection was saved from entire destruction.

Although the collection had been in their charge but a short time the Lepidoptera were largely spoiled and many injured, and the other orders suffered considerably. As the collection now stands, it is neatly labeled and in fairly good cabinets. My time with the collection was quite limited, and farther than this I can only speak for the Ichneumonidæ. In that family I found quite a number of types missing and some broken with only a part remaining. Another feature, somewhat unsatisfactory, is, that, the collection is composed primarily of two individual collections, which still remain separate, and frequently specimens, labelled the same, were found to belong to different genera and often to different subfamilies. This at once showed a very superficial knowledge of the classification, and had I not soon obtained the cue to it and had access to the Abbé's

descriptions, which are fairly accurate as far as they go, the arrangement would have been still more annoying.

It had been my fear for some time that probably there were a number of errors in the Abbé's classification of species which he described as new. The synonyms which Mr. Cresson found in making his check list, the reports of other careful workers who had seen some of the Abbé's work, and some examples of his determinations sent me for verification, all went to prove this suspicion was not without foundation. Feeling that good scientific work could not be continued on the Ichneumonidæ as long as many uncertain species were of doubtful classification, it seemed wisest to rectify these errors before any further descriptive work was done in the family. This and a chance to study the types was the object of my visit. To say that I found errors is needless, as the list following this introduction will speak for itself. This list of corrections which I shall give is complete only in one respect, viz.: classification of species in the right genus. There are certainly many synonyms yet to be worked out, but it will take more time to determine these, and the few given herein are what I incidentally happened to recognize at a glance. Quite a number of corrections and additions to the descriptions will also be needed to make them clear and replete, but I shall not at this time even touch upon this matter. The list is from notes taken at the time the specimens were examined. The species not mentioned are correct as to classification.

Ichneumon adjunctus is the ♀ of *Ichn. similaris*.

They are both identical in sculpture, form, and color markings, except face and posterior tibiæ and tarsi, which differ slightly in shade. They belong to the genus *Amblyteles*.

Ichneumon aterrimus. Type not seen.

“ *citrinus*. Type not seen.

“ *paradoxus*. Type not seen.

“ *quadripunctatus*. Type not seen.

“ *vancouverensis*. Type not seen.

“ *saguenayensis*. Type not seen.

Hoplismenus impar is a *Cryptus*, with the ovipositor broken off.

“ *stygius*. Type not seen.

Amblyteles superbus. Type not seen.

Platylabus mitralis is a *Phygadeuon*.

Platylabus crassicornis. A *Phygadeuon* and very close to *mitralis*.

“ *cincticornis* = *Cryptus*.

“ *aciculatus*. Appears to be a ♂ *Phygadeuon*, though it comes very close to *Cryptus* in several features.

Phæogenes annulatipes. Type not seen.

“ *aterrimus* = *Phygadeuon*.

“ *crassitelus* = *Hemiteles*.

“ *huarti*. Type not seen.

“ *indistinctus* = *Cryptus*. The description of the type is faulty.

Phæogenes nigricornis is either a *Cryptus* or *Phygadeuon*.

“ *orbis* = *Herpestomus*.

“ *pinguis*. Type not seen.

“ *recticornis* = *Cryptus*.

“ *tuberculifer* = *Phygadeuon*.

Exolytus politus. Type not seen.

Stilpnus appendiculatus. Type not seen.

“ *canadensis* has the abdomen missing.

“ *lævis* has the abdomen and hind legs missing. These both belong to *Cryptinæ*.

Stilpnus deficiens belongs to *Thersilochus*.

Phygadeuon acaudus = *Dicælotus*.

“ *alternans* = *Ichneumon*.

“ *attenuatus* = *Herpestomus*?

“ *brevicaudus* = *Ichneumon*.

“ *capitalis*. Type not seen.

“ *constrictus*. Type has lost the hind legs and abdomen, but from the oblique petiolated areolet and the general appearance of what remains, the type evidently belongs to a genus in *Tryphoninæ*.

Phygadeuon cornutus = *Hemiteles*.

“ *curticrus* = *Amblyteles*.

“ *excavatus*. Type not seen.

“ *fraterculus*. Type not seen.

“ *fusiformis*. Type not seen.

“ *fasciatus* = *Colpognathus*?

“ *geddessii*. Type not seen.

“ *gracilicornis*. Type not seen.

“ *guignardi* = *Ichneumon*.

Phygadeuon jocosus = *Ichneumon*.

“ *lavoiei* = *Cryptus*.

“ *longicornis*. Type not seen.

“ *marginatus*. Type not seen.

“ *niger*. Type not seen.

“ *pallicoxus*. Type nearly destroyed, but seems to be a good species.

Phygadeuon rectus. Antennæ wanting, but apparently a ♂ *Cryptus*.

“ *rubricus* = *Ichneumon*.

“ *similaris*. Type not seen.

“ *terminatus* = *Ichneumon*.

“ *3-annulatus*. Abdomen gone; antennæ indicate a *Cryptus*.

Phygadeuon truncatus. Type not seen. A specimen labelled *Phygadeuon poteus* is an *Ichneumon*. I know of no description of this species.

Cryptus albonotatus. Type not seen.

“ *dubius*. Type not seen.

“ *erythropygus*. Type not seen.

“ *flavipectus* = *Ichneumon scitulus* (Prov.). Type not seen.

“ *gracilis*. Type not seen.

“ *ignotus*. Type not seen.

“ *longicaudus*. Type not seen.

“ *mellipes*. Type not seen.

“ *ornatus*. Type not seen.

“ *perditus*. Type not seen.

“ *pubescens*. Type not seen.

“ *ruficornis* = *Phygadeuon nitidulus* (Prov.). Type not seen.

“ *segregatus*. Type not seen.

“ *sordidus*. Type not seen.

“ *spissicornis* = *Phygadeuon*.

“ *3-annulatus*. Type not seen.

Mesostenus albicoxus. Type not seen.

“ *albifacies* = *Mesoleptus*.

“ *armatus*. Type not seen.

“ *collinus* = *Cryptus eburneifrons* (Prov.). Type not seen.

“ *flavipes* = *Phygadeuon*.

“ *latigaster*. Type not seen.

“ *nobilis* = *Phytodietus*.

Mesostenus pluricinctus. Type not seen.

“ *ruficoxus*. Type not seen.

“ *rufotinctus*. Type not seen.

“ *sericeus*. Type not seen.

Hemiteles debilis. Type not seen.

“ *gigas*. Type not seen.

“ *orbicularis* = *Stilpnus americanus* (Prov.). Type not seen.

“ *ovalis* = *Orthopelma ovalis*.

“ *semirufus* = *Ischnocerus*.

Heteropelma longipes is apparently an *Anomalon*, though not typical.

Campoplex niger = *Exetastes*?

Limneria compacta. Type not seen.

“ *crassicornis* = *Campoplex*.

“ *radiolata* certainly belongs to some other genus than *Limneria*. It has many characteristics of *Pimplinæ* as well as of the *Ophioninæ*.

Limneria rufipes. Type not seen.

“ *sericea*. Type not seen.

“ *sessilis*?

“ *sulcatus* = *Anomalon*.

Pyrachmon annulatum is evidently a species of the *Tryphoninæ*, and from appearance of venation and areoleted thorax belongs to *Tryphon*. Abdomen and most of legs gone.

Pyrachmon incompletum is in most respects a typical *Atractodes*.

“ *rufum* = *Mesoleius*.

Cremastus longicaudus = *Atractodes*?

“ *mellipes* = *Limneria*.

“ *rectus*. Abdomen gone, but apparently well marked.

“ *royi* = *Atractodes* or new genus.

Mesochorus humeralis = *Atractodes*?

“ *pleuralis* seems to be a *Plectiscus* as Provancher had it at first.

Mesochorus truncatus = *Mesoleius*.

Cyrtocentrus quebecensis to all appearance belongs to the genus *Tryphon*.

In *Porizon* the species *angularis*, *borealis*, *elongatus*, *albipes*, and *californicus* are referred doubtfully to the genus.

Thersilochus errabundus = *Porizon borealis*.

“ *micans* is probably a *Porizon*.

Exetastes brevipennis = *Mesotenus promptus* (Prov.).

“ *clavatus*. Type not seen.

Banchus caudatus = *Exetastes*.

Mesoleptus albopleuralis will probably prove to be a ♂ *Atractodes* from the venation and other characters.

Mesoleptus angustus. Type not seen.

“ *annulatipes*. Type not seen.

“ *barbatus* = *Limneria*.

“ *fasciatus*. Type not seen.

“ *filiformis* = *Cryptus* ♂.

“ *flavicornis* to all appearance belongs to *Ophioninae*. The abdomen is compressed at the tip, and the petiole is long, straight, and slender.

Mesoleptus largus = *Tryphon*.

“ *nigricornis* = *Otenopelma* (Prov.) Type not seen.

“ *rhopalocerus* = *Tryphon*.

“ *rufipes* = *Echthrus pediculatus*.

“ *rufulus* = *Phygadeuon*.

“ *sericeus* = *Cryptus*?

“ *uniformis*. Type not seen.

“ *variabilis* = *muliebris* (Prov.).

Eclytus robustus. This certainly is not *Eclytus*. The abdomen is wanting, but the head and thorax, with wings, indicate *Mesoleius* or *Mesoleptus*. The areolet is petiolate and somewhat obscure, but present.

Mesoleius annulatus = *Phytodictus vulgaris* Cr.

“ *chicoutimiensis* = *Tryphon*.

“ *fissus* = *Lampronota*?

“ *inflatifrons* = *Exochus semirufus* Cr.

“ *junctus* = *Bassus frontalis* Cr.

“ *telarius* = *Phytodietus zonatus*.

Tryphon dufresnei ♀ is a large species of *Mesoleius*; the small ♂ belongs to the genus *Tryphon*.

“ *excavatus* = ♀ *Mesoleius*.

“ *fractus* = *Lampronota*.

“ *fumipennis*. Type not seen.

“ *gaspesianus* = *Polyblastus* (Prov.).

Polyblastus annulicornis = ♂ *Tryphon*.

“ *decoratus* = *Lampronota*? Areolet wanting.

Polyblastus inornatus = *Lampronota*.

“ *gaspesianus* = *Tryphon*.

Erromenus bedardi = *Tryphon*.

Oteniscus canadensis. Type not seen.

“ *crassipes*. Type not seen.

“ *hullensis*. Type not seen.

“ *rufus* = *Acrotomus*.

Exyston marginatum. Type not seen.

Orthocentrus albofasciatus = *Megastylus* or possibly *Mesoleptus*.

“ *lucens*. Type not seen.

Orthocentrus piliprons is badly injured, with antennæ and abdomen entirely gone. Femora slender, and areolet as in the *Cryptinæ*, where it undoubtedly belongs.

Orthocentrus nigricoxus. Type not seen.

Bassus cylindricus = *Pimpla inquisitor* Say.

“ *dorsalis* = *Plectiscus*.

“ *fuscitarsis* = *bicapillaris* Walsh.

“ *longicornis* = ♂ of *elongatus*.

Coleocentrus mellipes. Type not seen.

Rhyssa crevieri = *albomaculata* ♂.

Thalassa quebecensis. Type not seen.

Meniscus ashmeadii = *Pimpla annulipes*.

“ *marginatus* = *Pimpla annulipes*.

Aplomerus tibialis. Type not seen.

Echthrus nigricornis = *Cryptus* or *Phygadeuon*?

“ *pediculatus* = *Euxroides*?

“ *provancheri* = *Cryptus extrematus*(?)